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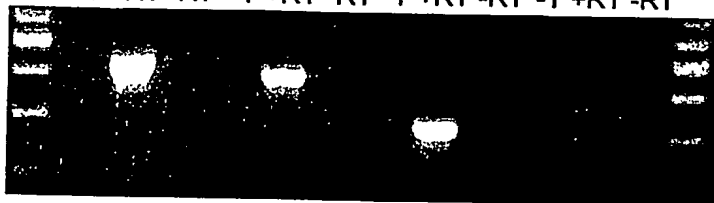
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(54) Title: COMPOSITIONS AND METHODS FOR THE CONTROL, DIFFERENTIATION AND/OR MANIPULATION OF PLURIPOTENT CELLS THROUGH A GAMMA-SECRETASE SIGNALING PATHWAY

Notch 1 Notch 2 Notch 3 Notch 4
-T +RT -RT -T +RT -RT -T +RT -RT -T +RT -RT



(57) Abstract: The current invention relates to the control and/or manipulation of the gamma-secretase signaling pathway in pluripotent cells to stabilize the cells in a pluripotent state and/or to control the differentiation of the pluripotent cells towards a differentiated state. The invention further includes feeder layers that contain or express ligands or other compounds that inhibit gamma-secretase or Notch signaling to enhance the maintenance of pluripotent cells in a pluripotent state. The invention also includes cell culture compositions that comprise

pluripotent cells and inhibitors of gamma-secretase, or activators or inhibitors of Notch signaling.

WO 2004/090110 A2